

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: LaPointe *et al.*  
Serial No.: 10/043,356  
Filed: January 11, 2002

For: **METHOD FOR SELECTING  
MEDICAL AND BIOCHEMICAL  
DIAGNOSTIC TESTS USING  
NEURAL NETWORK-RELATED  
APPLICATIONS**

Art Unit: Unassigned  
Examiner: Unassigned

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U.S. Patent and Trademark Office  
P.O. Box 2327  
Arlington, VA 22202, on this date.

07/02/2002  
Date

  
Alicia Bradbury

TRANSMITTAL LETTER

Commissioner for Patents  
Arlington, VA 22202

Dear Sir:

Transmitted herewith are a Supplemental Information Disclosure Statement and Forms PTO-1449 (2 Pages) for filing in connection with the above-identified application. Because this Information Disclosure Statement is filed prior to receipt of a First Office Action on the merits in the above-referenced application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 50-1213, as stated below:

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Respectfully submitted,  
HELLER EHRMAN WHITE & McAULIFFE LLP

By: \_\_\_\_\_

Stephanie Seidman  
Registration No. 33,779

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Respectfully submitted,  
HELLER EHRMAN WHITE & McAULIFFE LLP

By:

*Stephanie Seidman*  
Stephanie Seidman  
Registration No. 33,779

Docket No. 24727-801F  
Correspondence to:  
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07/02/2002  
Date

*Alicia Bradbury*  
Alicia Bradbury

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE  
WITH 37 C.F.R. §§ 1.97-1.98**

Commissioner for Patents  
Arlington, VA 22202

Dear Sir:

Since this Supplemental Information Disclosure Statement is filed before the receipt of a first Office Action on the merits for the above-captioned application, no filing fee is due. If it is determined that a fee is due, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Supplemental Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. The Forms PTO-1449 (2 pages) and cited references.

The documents listed on the Forms PTO-1449 are in the English language. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Supplementa

**U.S.S.N. 10/043,356**

**LaPointe *et al.***

**Supplemental Information Disclosure Statement**

Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

Respectfully submitted,  
HELLER EHRMAN WHITE & McAULIFFE LLP

By: \_\_\_\_\_

Stephanie Seidman  
Registration No. 33,779

Attorney Docket No. 24727-801F  
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Telephone: (858) 450-8400  
Facsimile: (858) 587-5360  
E-mail: sseidman@HEWM.com

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
24727-801FSERIAL NO.  
10/043,356LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENTAPPLICANT  
LaPointe *et al.*FILING DATE  
01/11/02GROUP  
2122

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |   | DOCUMENT NUMBER |   |   |   |   |   |   | DATE     | NAME                   | CLASS | SUB<br>CLASS | FILING<br>DATE |
|---------------------|---|-----------------|---|---|---|---|---|---|----------|------------------------|-------|--------------|----------------|
|                     | A | 4               | 7 | 9 | 5 | 0 | 3 | 6 | 01/03/89 | Williams <i>et al.</i> | 209   | 657          | 06/15/87       |
|                     | B | 5               | 1 | 3 | 0 | 9 | 3 | 6 | 07/14/92 | Sheppard <i>et al.</i> | 364   | 551.01       | 09/14/90       |
|                     | C | 5               | 4 | 8 | 1 | 4 | 8 | 1 | 01/02/96 | Frey <i>et al.</i>     | 364   | 551.01       | 11/23/92       |
|                     | D | 5               | 5 | 4 | 4 | 3 | 0 | 8 | 08/06/96 | Giordano <i>et al.</i> | 395   | 183.02       | 08/02/94       |
|                     | E | 5               | 6 | 9 | 0 | 1 | 0 | 3 | 11/25/97 | Groth <i>et al.</i>    | 128   | 632          | 06/20/96       |
|                     | F | 6               | 8 | 1 | 7 | 4 | 6 | 1 | 10/06/98 | Austin <i>et al.</i>   | 435   | 6            | 01/03/96       |
|                     | G | 5               | 8 | 7 | 8 | 7 | 4 | 6 | 03/09/99 | Lemelson <i>et al.</i> | 128   | 653.1        | 06/06/95       |

## FOREIGN PATENT DOCUMENTS

|  |  | DOCUMENT NUMBER |  |  |  |  |  |  | DATE | COUNTRY | CLASS | SUB<br>CLASS | Translation<br>Yes No |  |
|--|--|-----------------|--|--|--|--|--|--|------|---------|-------|--------------|-----------------------|--|
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|   |   |
|---|---|
| H | Al-Jumah <i>et al.</i> "Artificial Neural Network Based Multiple Fault Diagnosis in Digital Circuits," <i>ISACS '98 Proc. of the 1998 IEEE International Symposium on Circuits and Systems</i> Monterey, CA, USA, 31 May-3 June 1998 vol.2, pgs. 304-307 (1998) |
| I | Brownell, T.A. "Neural Networks for Sensor Management and Diagnostics," <i>Proceedings of the IEEE 1992 National Aerospace and Electronics Conference, NAECON 1992</i> [Cat. No. 92CH3158-3] Dayton, OH, USA, 18-22 May 1992. pgs. 923-929 (1992)               |
| J | Burke, H.B. "Evaluating Artificial Neural Networks for Medical Applications," <i>Proceedings of International Conference on Neural Networks (ICNN'97)</i> [Cat.No.97CH36109] Houston, TX, USA, 9-12 June 1997 vol.4, pgs.2494-5 (1997)                          |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

|   |                                     |                          |
|---|-------------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24727-801F      | SERIAL NO.<br>10/043,358 |
|   | APPLICANT<br>LaPointe <i>et al.</i> |                          |
|   | FILING DATE<br>01/11/02             | GROUP<br>2122            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|   |  |
|---|--|
| K | Marko <i>et al.</i> , "Automotive Diagnostics Using Trainable Classifiers: Statistical Testing and Paradigm Selection," <i>(IJCNN) International Joint Conference on Neural Networks</i> [Cat. No.90CH2879-5] San Diego, CA, USA, 17-21 June 1990. vol.1, pgs. 33-8 (1990) |
| L | Michel <i>et al.</i> , "Prognosis with Neural Networks Using Statistically Based Feature Sets," <i>Proceedings. 5th Annual IEEE Symposium on Computer-Based Medical Systems</i> [Cat.No.92CH3117-9] Durham, NC, USA, 14-17 June 1992. pgs. 695-702 (1992)                  |
| M | Ouyang <i>et al.</i> , "Using a Neural Network to Diagnose Anterior Wall Myocardial Infarction," <i>Proceedings of the International Conference on Neural Networks (ICNN'97)</i> [Cat. No. 97CH36109] Houston, TX, USA, 9-12 June 1997, pgs. 56-61 (1997)                  |
| N | Sheppard <i>et al.</i> , "A Neural Network for Evaluating Diagnostic Evidence," <i>Proceedings of the IEEE 1991 National Aerospace and Electronics Conference NAECON 1991</i> [Cat. No.90CH3007-2] Dayton, OH, USA 20-24 May 1991. vol.2, pgs.717-23 (1991)                |
|   |  |

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Client No.: 24727-801F (SLS:RHT/mo'n)  
Enclosures: TRANSMITTAL LETTER (in duplicate); PRELIMINARY AMENDMENT; AND  
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Applicant(s): LaPOINTE, ET AL.  
Serial No.: 10/043,356  
Filed: JANUARY 11, 2002  
For: METHOD FOR SELECTING MEDICAL AND BIOCHEMICAL DIAGNOSTIC TESTS  
USING NEURAL NETWORK-RELATED APPLICATIONS

\_\_\_\_\_  
PLEASE STAMP HERE (THANK YOU):

